

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,660,378  
DATED : February 9, 2010  
INVENTOR(S) : Jean-Marc BROSSIER et al.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Abstract section on front cover of patent from

"A method for estimating the phase in a digital communication system, compromising the steps of:

receiving and storing a block of observations  $Y_{subk}$ ;  
executing at least one phase locked loop (PLL) on a pre-determined sequence of observations extracted from said block.

Each PLL provides an intermediate value, combining both intermediate values makes it possible to provide a sharpened phase estimate. The method allows realization of an improved phase estimator based on the simplicity of phase locked loops."

-- To --

"A method for estimating the phase in a digital communication system, compromising the steps of: receiving and storing a block of observations  $Y_{subk}$ ;  
executing at least one phase locked loop (PLL) on a pre-determined sequence of observations extracted from said block. Each PLL provides an intermediate value, combining both intermediate values makes it possible to provide a sharpened phase estimate. The method allows realization of an improved phase estimator based on the simplicity of phase locked loops."

MAILING ADDRESS OF SENDER:USPTO Customer Number: 23334 PATENT NO. 7,660,378

FLEIT GIBBONS GUTMAN  
BONGINI & BIANCO P.L.  
One Boca Commerce Center  
551 N.W. 77th Street, Suite 111  
Boca Raton, Florida 33487



No. of additional copies \_\_\_\_\_